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Jeffrey C. Hood Meyertons, Hood, Kivlin, Kowert & Goetzel PC P.O. Box 398 Austin, TX 78767			CHEUNG, HUBERT G	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No.	Applicant(s)	
	10/679,870	WILLIAMS ET AL.	
	Examiner	Art Unit	
	Hubert Cheung	2168	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 30 July 2007.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-15 and 20-27 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) 1-15 and 20-27 is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)	4) <input type="checkbox"/> Interview Summary (PTO-413)
2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date. _____
3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)	5) <input type="checkbox"/> Notice of Informal Patent Application
Paper No(s)/Mail Date _____	6) <input type="checkbox"/> Other: _____

DETAILED ACTION

1. This Office action is responsive to the amendment filed on 07/30/2007.

Claims 1-15 and 20-27 are pending.

Claims 1 and 24-27 have been amended.

Claims 16-19 and 28-30 have been cancelled.

Continued Examination Under 37 CFR 1.114

2. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 07/30/2007 has been entered.

Response to Amendment

3. Applicant's amendment to the paragraph, beginning on p. 3, line 2, of the specification has been accepted.

Applicant's amendment to the paragraph, beginning on p. 10, line 21, of the specification has been accepted.

Applicant's amendment to the paragraph, beginning on p. 11, line 1, of the specification has been accepted.

Applicant's amendment to the paragraph, beginning on p. 17, line 3, of the specification has been accepted.

Applicant's amendment to the paragraph, beginning on p. 18, line 10, of the specification has been accepted.

The objections to the presentation of the use of trademarks have been withdrawn, except as noted below.

Applicant's amendments to claims 1 and 24-27 have been accepted.

Specification

4. The use of the trademark, VISSIM (p. 11, line 5), has been noted in this application. It should be capitalized wherever it appears and be accompanied by the generic terminology.

Although the use of trademarks is permissible in patent applications, the proprietary nature of the marks should be respected and every effort made to prevent their use in any manner which might adversely affect their validity as trademarks.

Claim Rejections - 35 USC § 103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

6. Claim 1-15 and 20-27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Molinari, et al., US 2003/0058280 A1, filed on August 28, 2002 and published on March 27, 2003 (hereinafter "Molinari") in view of Bowman, et al., US 6,233,726 B1, filed on May 7, 1997 and issued on May 15, 2001 (hereinafter "Bowman").

Claim 1

With respect to claim 1, Molinari discloses **a computer-readable memory medium** (Molinari, paragraph [0083] where [c]omputer (12) comprises generally the internal components . . . that are typical of personal computers, including besides the CPU a main memory) **comprising program instructions executable to: dynamically determine a plurality of valid parameter values** (Molinari, paragraph [0089] when queried by the user . . . the data sink presents to the user a detailed listing of available data sources; and Molinari, paragraph [0148] where [u]pon the opening of the property page by the user, said property page handler browses front panel Aspect Handler . . . for any data source panels then existing within the front panel);

display a graphical user interface for selecting a parameter value, wherein the graphical user interface visually indicates the plurality of valid parameter values (Molinari, paragraph [0089] where simply by clicking open the property page of the data sink "panel" placed on the desktop by the user[], the data sink presents to the user a detailed listing of available data sources; for any said data source selected by the user, said property page then displays a tree view of only those data channels);

receive user input to the graphical user interface to select a first parameter value from the plurality of valid parameter values (Molinari, paragraph [0089] where [u]pon selection of a desired data channel by the user); and

automatically include the first parameter value in the source code of the software program in response to the user input selecting the first parameter value (Molinari, paragraph [0037] where [a]s the user places selected virtual instrument “panels” on the desktop and configures their properties . . . , an AIL file containing a description of the selected, created and defined aspects is simultaneously created, including, for each aspect, a description of its properties and connections [i.e., source code]), **wherein said automatically including the first parameter value in the source code of the software program** (Molinari, paragraph [0032] where the execution of the developed application may therefore be implemented, with no compilation or interpretation of code, by the execution of a simple textual script file [i.e., source code] identifying the selected attributes, functions and connectivities determined by the users application). However, Molinari is silent with respect to wherein the graphical user interface is displayed while a user is editing source code of a software program, wherein the source code is written in a text-based programming language that can be compiled into executable code; and aiding the user in editing the source code.

On the other hand, Bowman discloses **wherein the graphical user interface is displayed while a user is editing source code of a software program, wherein the source code is written in a text-based programming language that can be compiled into executable code** (Bowman, Col. 7, lines 17-28; and Bowman, Fig. 4A);

and **that aids the user in editing the source code** (Bowman, Col. 7, lines 17-28). It would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate Bowman's teachings to Molinari's invention. A skilled artisan would have been motivated to do so, as suggested by Bowman, Col. 2, line 66-Col. 3, line 7, in order to provide tools to facilitate creation and editing of source code. In addition, both of the references (Molinari and Bowman) disclose features that are directed to analogous art and they are directed to the same field of endeavor, such as creating software. This close relation between both of the references highly suggests an expectation of success.

Claim 2

With respect to claim 2, the combination of Molinari and Bowman further discloses **wherein said dynamically determining the plurality of valid parameter values comprises dynamically determining the plurality of valid parameter values based on a configuration of a computer system** (Molinari, paragraph [0089] where when queried by the user . . . the data sink presents to the user a detailed listing of available data sources; and Molinari, paragraph [0148] where [u]pon the opening of the property page by the user, said property page handler browses front panel Aspect Handler . . . for any data source panels then existing within the front panel).

Claim 3

With respect to claim 3, the combination of Molinari and Bowman further discloses **wherein said dynamically determining the plurality of valid parameter values based on the configuration of the computer system comprises dynamically determining the plurality of valid parameter values based on a hardware configuration of the computer system** (Molinari, paragraph [0089] when queried by the user . . . the data sink presents to the user a detailed listing of available data sources; Molinari, paragraph [0148] where [u]pon the opening of the property page by the user, said property page handler browses front panel Aspect Handler . . . for any data source panels then existing within the front panel; Molinari, paragraph [0180] where the listing of data source types that are, or are to be, connected to the computer [which includes hardware] . . . and that are supported by appropriated device driver software [which inherently means there is hardware]; and Molinari, paragraph [0283] where listed data source types represent all of the various data source types then supported by the software of the invention, and thus usable to connect to a corresponding physical device).

Claim 4

With respect to claim 4, the combination of Molinari and Bowman further discloses **wherein said dynamically determining the plurality of valid parameter values based on the hardware configuration of the computer system comprises programmatically examining information regarding the hardware configuration of the computer system** (Molinari, paragraph [0180] where device driver software

programmatically examines information regarding hardware; and Molinari, paragraph [0183] where the DAQ Data Source panel [i.e., software] allows a user to set up conventional DAQ hardware device . . . and to configure the subsystems of said DAQ device).

Claim 5

With respect to claim 5, the combination of Molinari and Bowman further discloses **wherein said dynamically determining the plurality of valid parameter values based on the hardware configuration of the computer system comprises programmatically querying software associated with one or more hardware devices coupled to the computer system** (Molinari, paragraph [0180] where device driver software programmatically examines information regarding hardware; Molinari, paragraph [0183] where the DAQ Data Source panel [i.e., software] allows a user to set up conventional DAQ hardware device . . . and to configure the subsystems of said DAQ device; and Molinari, paragraph [0283] where listed data source types represent all of the various data source types then supported by the software of the invention, and thus usable to connect to a corresponding physical device).

Claim 6

With respect to claim 6, the combination of Molinari and Bowman further discloses **wherein said dynamically determining the plurality of valid parameter values based on the configuration of the computer system comprises**

dynamically determining a first plurality of valid parameter values (Molinari, paragraph [0089] when queried by the user . . . the data sink presents to the user a detailed listing of available data sources; and Molinari, paragraph [0148] where [u]pon the opening of the property page by the user, said property page handler browses front panel Aspect Handler . . . for any data source panels then existing within the front panel);

wherein the program instructions are executable to dynamically determine a second plurality of valid parameter values based on the configuration of the computer system after the configuration of the computer system has been changed (Molinari, paragraph [0266] where once a data source device has been selected, a listing of subsystems associated with said device is presented to the user; and Molinari, paragraph [0291] where [u]pon selecting a particular data source input channel, . . . , the user is provided by the property page of the data source panel with numerous configuration options. . . . The ranges of parameter values presented to the user are set to limits established by the operating specification of the pertinent hardware device).

Claim 7

With respect to claim 7, the combination of Molinari and Bowman further discloses **wherein said dynamically determining the plurality of valid parameter values comprises dynamically determining one or more parameter values corresponding to hardware devices coupled to a computer system** (Molinari,

paragraph [0291] where [u]pon selecting a particular data source input channel, . . . , the user is provided by the property page of the data source panel with numerous configuration options. . . . The ranges of parameter values presented to the user are set to limits established by the operating specification of the pertinent hardware device);

wherein the first parameter value corresponds to a first hardware device

(Molinari, paragraph [0082] where one of the instruments coupled to computer (12), where an instrument is a hardware device; paragraph [0275] where the data acquisition hardware device is a DAQ board; and Molinari, Fig. 2 (16) where a serial instrument is a hardware device);

wherein said automatically including the first parameter value in source code of the software program comprises automatically configuring source code of the software program with a reference to the first hardware device (Molinari, paragraph [0037] where [a]s the user places selected virtual instrument “panels” [i.e., first hardware device] on the desktop and configures their properties . . . , an AIL file containing a description of the selected, created and defined aspects is simultaneously created, including, for each aspect, a description of its properties and connections [i.e., source code]).

Claim 8

With respect to claim 8, the combination of Molinari and Bowman further discloses **wherein said dynamically determining the plurality of valid parameter values comprises dynamically determining one or more parameter values**

corresponding to resources of one or more hardware devices (Molinari, paragraph [0291] where [u]pon selecting a particular data source input channel, . . . , the user is provided by the property page of the data source panel with numerous configuration options. . . . The ranges of parameter values presented to the user are set to limits established by the operating specification of the pertinent hardware device);

wherein the first parameter value corresponds to a first resource of a first hardware device (Molinari, paragraph [0275] where the DAQ Controller property page includes a Data Sources drop-down list . . . [t]he user's selection of a data source device on this drop-down list effects a connection between said data source device and the DAQ Controller panel);

wherein said automatically including the first parameter value in source code of the software program comprises automatically configuring source code of the software program with a reference to the first resource of the first hardware device (Molinari, paragraph [0037] where [a]s the user places selected virtual instrument "panels" [i.e., first resource of the first hardware device] on the desktop and configures their properties . . . , an AIL file containing a description of the selected, created and defined aspects is simultaneously created, including, for each aspect, a description of its properties and connections [i.e., source code]).

Claim 9

With respect to claim 9, the combination of Molinari and Bowman further discloses **wherein said dynamically determining the plurality of valid parameter**

values comprises dynamically determining (Molinari, paragraph [0089] when queried by the user . . . the data sink presents to the user a detailed listing of available data sources; and Molinari, paragraph [0148] where [u]pon the opening of the property page by the user, said property page handler browses front panel Aspect Handler . . . for any data source panels then existing within the front panel) **one or more GPIB resources** (Molinari, paragraph [0082] where Molinari discloses using DAQ resources, which are used in test equipment, through an I/O slot in a computer by using a PCI bus, ISA bus or an EISA bus. Molinari also discloses providing users with a system that is specifically adapted for the development of customized measurement environments for automated test equipment (Molinari, paragraphs [0073]-[0074]). These implications disclose, “one or more GPIB resources.”);

wherein the first parameter value comprises a first GPIB resource (Molinari, paragraph [0082] where Molinari discloses using DAQ resources, which are used in test equipment, through an I/O slot in a computer by using a PCI bus, ISA bus or an EISA bus. Molinari also discloses providing users with a system that is specifically adapted for the development of customized measurement environments for automated test equipment (Molinari, paragraphs [0073]-[0074]). These implications disclose, “wherein the first parameter value comprises a first GPIB resource.”);

wherein said automatically including the first parameter value in source code of the software program comprises automatically configuring source code of the software program with a reference to the first GPIB resource (Molinari, paragraph [0037] where [a]s the user places selected virtual instrument “panels” on the

desktop and configures their properties . . . , an AIL file containing a description of the selected, created and defined aspects is simultaneously created, including, for each aspect, a description of its properties and connections [i.e., source code]).

Claim 10

With respect to claim 10, the combination of Molinari and Bowman further discloses **wherein said dynamically determining the plurality of valid parameter values comprises dynamically determining** (Molinari, paragraph [0089] when queried by the user . . . the data sink presents to the user a detailed listing of available data sources; and Molinari, paragraph [0148] where [u]pon the opening of the property page by the user, said property page handler browses front panel Aspect Handler . . . for any data source panels then existing within the front panel) **one or more Visa resources** (Molinari, paragraph [0082] where Molinari discloses using DAQ resources, which are used in test equipment, through an I/O slot in a computer by using a PCI bus, ISA bus or an EISA bus. Molinari also discloses providing users with a graphical system that is specifically adapted for the development of customized measurement environments for automated test equipment (Molinari, paragraphs [0073]-[0074]). These implications disclose, "one or more Visa resources.");

wherein the first parameter value comprises a first Visa resource (Molinari, paragraph [0082] where Molinari discloses using DAQ resources, which are used in test equipment, through an I/O slot in a computer by using a PCI bus, ISA bus or an EISA bus. Molinari also discloses providing users with a graphical system that is specifically

adapted for the development of customized measurement environments for automated test equipment (Molinari, paragraphs [0073]-[0074]). These implications disclose, "wherein the first parameter value comprises a first Visa resource.");

wherein said automatically including the first parameter value in source code of the software program comprises automatically configuring source code of the software program with a reference to the first Visa resource (Molinari, paragraph [0037] where [a]s the user places selected virtual instrument "panels" on the desktop and configures their properties . . . , an AIL file containing a description of the selected, created and defined aspects is simultaneously created, including, for each aspect, a description of its properties and connections [i.e., source code]).

Claim 11

With respect to claim 11, the combination of Molinari and Bowman further discloses **wherein said dynamically determining the plurality of valid parameter values comprises dynamically determining one or more DAQ resources** (Molinari, paragraph [0291] where [u]pon selecting a particular data source input channel, . . . , the user is provided by the property page of the data source panel with numerous configuration options. . . . The ranges of parameter values presented to the user are set to limits established by the operating specification of the pertinent hardware device [which can include a DAQ resource]);

wherein the first parameter value comprises a first DAQ resource (Molinari, paragraph [0183] where [t]he DAQ Data Source panel allows a user to set up a conventional DAQ hardware device);

wherein said automatically including the first parameter value in source code of the software program comprises automatically configuring source code of the software program with a reference to the first DAQ resource (Molinari, paragraph [0037] where [a]s the user places selected virtual instrument “panels” [i.e., first DAQ resource] on the desktop and configures their properties . . . , an AIL file containing a description of the selected, created and defined aspects is simultaneously created, including, for each aspect, a description of its properties and connections [i.e., source code]).

Claim 12

With respect to claim 12, the combination of Molinari and Bowman further discloses **wherein said dynamically determining the plurality of valid parameter values comprises dynamically determining one or more universal resource locators (URLs)** (Molinari, paragraph [0082] where a data source can be obtained from another computer (20) acting as an OPC server. The OPC server can communicate with computer (12) via a wired or wireless means [i.e., network]. In order for computer (12) to communicate with computer (20), computer (12) would inherently have to dynamically determine computer (20)’s IP address. A URL is simply a mnemonic for an

IP address. Therefore, the invention must inherently be able to dynamically determine one or more IP addresses, which could be URLs);

wherein the first parameter value comprises a first URL (Molinari, paragraph [0082] where a data source can be obtained from another computer (20) acting as an OPC server. The OPC server can communicate with computer (12) via a wired or wireless means [i.e., network]. In order for computer (12) to communicate with computer (20), computer (12) would inherently have to dynamically determine computer (20)'s IP address. A URL is simply a mnemonic for an IP address. Therefore, the invention must inherently be able to have the first parameter value comprise a first URL to reach the data source on computer (20));

wherein said automatically including the first parameter value in source code of the software program comprises automatically configuring source code of the software program with a reference to the first URL (Molinari, paragraph [0037] where [a]s the user places selected virtual instrument "panels" [i.e., first URL] on the desktop and configures their properties . . . , an AIL file containing a description of the selected, created and defined aspects is simultaneously created, including, for each aspect, a description of its properties and connections [i.e., source code]).

Claim 13

With respect to claim 13, the combination of Molinari and Bowman further discloses **further comprising program instructions executable to: receive user input specifying filtering criteria for the parameter values** (Molinari, paragraph

[0149] where [d]ata sources that fit the needs of data sink (130) are checked, and the resulting list of qualifying data sources is displayed, on a combo box, Upon the selection of a data source by the user; and Molinari, Fig. 10);

wherein the graphical user interface visually indicates only a subset of the valid parameter values, wherein the subset is determined based on the specified filtering criteria (Molinari, paragraph [0266] where once a data source device has been selected, a listing of subsystems associated with said device is presented to the user; Molinari, paragraph [0291] where [u]pon selecting a particular data source input channel . . . the user is provided by the property page of the data source panel with numerous configuration options. . . . The ranges of parameter values presented to the user are set to limits established by the operating specification of the pertinent hardware device; and Molinari, Fig. 10).

Claim 14

With respect to claim 14, the combination of Molinari and Bowman further discloses **further comprising program instructions executable to: receive user input requesting to display the graphical user interface for selecting the parameter value** (Molinari, paragraph [0149] where [a] list of panels having a data source aspect is returned, and an aspect filter (135) of data sink aspect (130) determines, for each data source found, whether the data source accords with the needs of said data sink aspect Data sources that fit the needs of data sink (130) are checked, and the resulting list of qualifying data sources is displayed, on a combo

box, in a “data sources view” of the data sink property page; and Molinari, paragraph [0266] where once a data source device has been selected, a listing of subsystems associated with said device is presented to the user);

wherein said displaying the graphical user interface is performed in response to the user input requesting to display the graphical user interface (Molinari, paragraph [0266] where once a data source device has been selected, a listing of subsystems associated with said device is presented to the user).

Claim 15

With respect to claim 15, the combination of Molinari and Bowman further discloses **wherein said automatically including the first parameter value in source code of the software program comprises automatically including the first parameter value in one of: a function call in source code of the software program** (Molinari, paragraph [0038] where the user adds more panels, selects more properties, and effects connections between panels, the AIL file expands into a complete textual description of the user’s program [i.e., source code]. At the same time, this AIL file corresponds to an executable set of selections from existing libraries of executable code [which inherently includes a function call in the source code]); or

a method call in source code of the software program (Molinari, paragraph [0038] where the user adds more panels, selects more properties, and effects connections between panels, the AIL file expands into a complete textual description of the user’s program [i.e., source code]. At the same time, this AIL file corresponds to an

executable set of selections from existing libraries of executable code [which inherently includes a method call in the source code]).

Claim 20

With respect to claim 20, the combination of Molinari and Bowman further discloses **wherein said displaying the graphical user interface comprises displaying the graphical user interface in a separate window apart from the software program** (Molinari, paragraph [0025] where [b]y the selections from menu lists, or the “drag and drop” of selected panels icons presented in a “flying tool windows” [which is apart from the main desktop and which is also a part of the graphical user interface of the software program]).

Claim 21

With respect to claim 21, the combination of Molinari and Bowman further discloses **wherein said displaying the graphical user interface comprises displaying the graphical user interface in a portion of a program window for the software program** (Molinari, Fig. 1; Molinari, Fig. 16; and Molinari, Fig. 17).

Claim 22

With respect to claim 22, the combination of Molinari and Bowman further discloses **wherein the graphical user interface displays the plurality of valid parameter values as a list** (Molinari, paragraph [0089] where [w]hen queried by the

user (simply by clicking open the property page of the data sink “panel” placed on the desktop by the user), the data sink presents to the user a detailed listing of available data sources; for any said data source selected by the user, said property page then displays a tree view of only those data channels that are supported for display by the data sink panel; Molinari, Fig. 11; Molinari, Fig. 13; and Molinari, Fig. 15);

wherein said receiving user input to the graphical user interface to select the first parameter value comprises receiving user input to the graphical user interface to select the first parameter value from the list (Molinari, paragraph [0089] where [w]hen queried by the user (simply by clicking open the property page of the data sink “panel” placed on the desktop by the user), the data sink presents to the user a detailed listing of available data sources; for any said data source selected by the user, . . . Upon selection of a desired data channel by the user, the data sink aspect contains the functionality required to establish automatically a data link between the data source and the data sink).

Claim 23

With respect to claim 23, the combination of Molinari and Bowman further discloses **wherein said dynamically determining the plurality of valid parameter values includes dynamically determining one or more property values** (Molinari, paragraph [0089] where [w]hen queried by the user (simply by clicking open the property page of the data sink “panel” placed on the desktop by the user), the data sink presents to the user a detailed listing of available data sources; for any said data source

selected by the user, said property page then displays a tree view of only those data channels that are supported for display by the data sink panel; and Molinari, paragraph [0149] where [a] list of panels having a data source aspect is returned, and an aspect filter (135) of data sink aspect (130) determines, for each data source found [i.e., dynamically determining a property], whether the data source accords with the needs of said data sink aspect Data sources that fit the needs of data sink (130) are checked, and the resulting list of qualifying data sources is displayed [i.e., dynamically determining another property]);

wherein said receiving user input to the graphical user interface to select the first parameter value comprises receiving user input to the graphical user interface to select a first property value (Molinari, paragraph [0089] where [w]hen queried by the user (simply by clicking open the property page of the data sink “panel” placed on the desktop by the user), the data sink presents to the user a detailed listing of available data sources);

wherein the first property value is automatically included in the software program in response to the user input selecting the first property value (Molinari, paragraph [0037] where [a]s the user places selected virtual instrument “panels” on the desktop and configures their properties . . . , an AIL file containing a description of the selected, created and defined aspects is simultaneously created, including, for each aspect, a description of its properties and connections [i.e., source code]; and Molinari, paragraph [0099] where [t]he actions of the user in selecting instrument component panels, and configuring their properties, serve to define the content and properties of

the user's intended application program. These actions by the user also operate to create a textual file, called in this description an Aspect Interaction Language (AIL) file, that contains a description of the selected, created and defined software "aspects", As the user adds more panels, selects more properties, and effects connections between panels, the AIL file expands into a complete textual description of the user's program).

Claim 24

With respect to claim 24, Molinari discloses a **computer-readable memory medium comprising program instructions executable to: determine a plurality of parameter values based on a hardware configuration of a computer system** (Molinari, paragraph [0291] where [t]he ranges of parameter values presented to the user are set to limits established by the operating specifications of the pertinent hardware device);

display a graphical user interface for selecting a parameter value, wherein the graphical user interface visually indicates the plurality of parameter values (Molinari, paragraph [0089] where [w]hen queried by the user (simply by clicking open the property page of the data sink "panel" placed on the desktop by the user), the data sink presents to the user a detailed listing of available data sources [i.e., graphical user interface]);

receive user input to the graphical user interface to select a first parameter value from the plurality of parameter values (Molinari, paragraph [0089] where

[w]hen queried by the user (simply by clicking open the property page of the data sink “panel” placed on the desktop by the user), the data sink presents to the user a detailed listing of available data sources); and

automatically include the first parameter value in the source code of the software program in response to the user input selecting the first parameter value

(Molinari, paragraph [0037] where [a]s the user places selected virtual instrument “panels” on the desktop and configures their properties . . . , an AIL file containing a description of the selected, created and defined aspects is simultaneously created, including, for each aspect, a description of its properties and connections [i.e., source code]; and Molinari, paragraph [0099] where [t]he actions of the user in selecting instrument component panels, and configuring their properties, serve to define the content and properties of the user’s intended application program. These actions by the user also operate to create a textual file, called in this description an Aspect Interaction Language (AIL) file, that contains a description of the selected, created and defined software “aspects”, As the user adds more panels, selects more properties, and effects connections between panels, the AIL file expands into a complete textual description of the user’s program). However, Molinari is silent with respect to wherein the graphical user interface is displayed while a user is editing source code of a software program, wherein the source code is written in a text-based programming language that can be compiled into executable code; and aiding the user in editing the source code. On the other hand, Bowman discloses **wherein the graphical user interface is displayed while a user is editing source code of a software program,**

wherein the source code is written in a text-based programming language that can be compiled into executable code (Bowman, Col. 7, lines 17-28; and Bowman, Fig. 4A); and **that aids the user in editing the source code** (Bowman, Col. 7, lines 17-28). See claim 1 above for the motivation to combine.

Claim 25

With respect to claim 25, Molinari discloses **a computer-readable memory medium comprising program instructions executable to: determine a plurality of resources of one or more measurement devices coupled to a computer system** (Molinari, paragraph [0082] where [t]he system (10) comprises a computer (12), which is connectable to a plurality of instruments [i.e., measurement devices]); Molinari, paragraph [0089] when queried by the user . . . the data sink presents to the user a detailed listing of available data sources; and Molinari, paragraph [0148] where [u]pon the opening of the property page by the user, said property page handler browses front panel Aspect Handler . . . for any data source panels then existing within the front panel);

display a graphical user interface visually indicating a plurality of parameter values, wherein each parameter value corresponds to one of the resources (Molinari, paragraph [0089] where [w]hen queried by the user (simply by clicking open the property page of the data sink “panel” placed on the desktop by the user), the data sink presents to the user a detailed listing of available data sources [i.e., graphical user interface]);

receive user input to the graphical user interface to select a first parameter value from the plurality of parameter values (Molinari, paragraph [0089] where [w]hen queried by the user (simply by clicking open the property page of the data sink “panel” placed on the desktop by the user), the data sink presents to the user a detailed listing of available data sources); and

automatically include the first parameter value in the source code of the software program in response to the user input selecting the first parameter value (Molinari, paragraph [0037] where [a]s the user places selected virtual instrument “panels” on the desktop and configures their properties . . . , an AIL file containing a description of the selected, created and defined aspects is simultaneously created, including, for each aspect, a description of its properties and connections [i.e., source code]; and Molinari, paragraph [0099] where [t]he actions of the user in selecting instrument component panels, and configuring their properties, serve to define the content and properties of the user’s intended application program. These actions by the user also operate to create a textual file, called in this description an Aspect Interaction Language (AIL) file, that contains a description of the selected, created and defined software “aspects”, As the user adds more panels, selects more properties, and effects connections between panels, the AIL file expands into a complete textual description of the user’s program). However, Molinari is silent with respect to wherein the graphical user interface is displayed while a user is editing source code of a software program, wherein the source code is written in a text-based programming language that can be compiled into executable code; and aiding the user in editing the

source code. On the other hand, Bowman discloses **wherein the graphical user interface is displayed while a user is editing source code of a software program, wherein the source code is written in a text-based programming language that can be compiled into executable code** (Bowman, Col. 7, lines 17-28; and Bowman, Fig. 4A); and **that aids the user in editing the source code** (Bowman, Col. 7, lines 17-28). See claim 1 above for the motivation to combine.

Claim 26

With respect to claim 26, Molinari discloses **a system comprising: a processor** (Molinari, paragraph [0083] where [a]ccordingly computer (12) includes at least one central processing unit, or CPU . . .);

a memory coupled to the processor, wherein the memory stores program instructions (Molinari, paragraph [0083] where [c]omputer (12) comprises generally the internal components . . . that are typical of personal computers, including besides the CPU a main memory);

wherein the processor is operable to execute the program instructions stored in the memory to: dynamically determine a plurality of valid parameter values (Molinari, paragraph [0089] when queried by the user . . . the data sink presents to the user a detailed listing of available data sources; and Molinari, paragraph [0148] where [u]pon the opening of the property page by the user, said property page handler browses front panel Aspect Handler . . . for any data source panels then existing within the front panel);

display a graphical user interface for selecting a parameter value, wherein the graphical user interface visually indicates the plurality of valid parameter values (Molinari, paragraph [0089] where simply by clicking open the property page of the data sink “panel” placed on the desktop by the user[], the data sink presents to the user a detailed listing of available data sources; for any said data source selected by the user, said property page then displays a tree view of only those data channels);

receive user input to the graphical user interface to select a first parameter value from the plurality of valid parameter values (Molinari, paragraph [0089] where [w]hen queried by the user (simply by clicking open the property page of the data sink “panel” placed on the desktop by the user), the data sink presents to the user a detailed listing of available data sources); and

automatically include the first parameter value in the source code of the software program in response to the user input selecting the first parameter value (Molinari, paragraph [0037] where [a]s the user places selected virtual instrument “panels” on the desktop and configures their properties . . . , an AIL file containing a description of the selected, created and defined aspects is simultaneously created, including, for each aspect, a description of its properties and connections [i.e., source code]; and Molinari, paragraph [0099] where [t]he actions of the user in selecting instrument component panels, and configuring their properties, serve to define the content and properties of the user’s intended application program. These actions by the user also operate to create a textual file, called in this description an Aspect Interaction Language (AIL) file, that contains a description of the selected, created and defined

software “aspects”, As the user adds more panels, selects more properties, and effects connections between panels, the AIL file expands into a complete textual description of the user’s program). However, Molinari is silent with respect to wherein the graphical user interface is displayed while a user is editing source code of a software program, wherein the source code is written in a text-based programming language that can be compiled into executable code; and aiding the user in editing the source code. On the other hand, Bowman discloses **wherein the graphical user interface is displayed while a user is editing source code of a software program, wherein the source code is written in a text-based programming language that can be compiled into executable code** (Bowman, Col. 7, lines 17-28; and Bowman, Fig. 4A); and **that aids the user in editing the source code** (Bowman, Col. 7, lines 17-28). See claim 1 above for the motivation to combine.

Claim 27

With respect to claim 27, Molinari discloses **a method for modifying source code of a software program, the method comprising: dynamically determining a plurality of valid parameter values** (Molinari, paragraph [0089] when queried by the user . . . the data sink presents to the user a detailed listing of available data sources; and Molinari, paragraph [0148] where [u]pon the opening of the property page by the user, said property page handler browses front panel Aspect Handler . . . for any data source panels then existing within the front panel);

displaying a graphical user interface for selecting a parameter value, wherein the graphical user interface visually indicates the plurality of valid parameter values (Molinari, paragraph [0089] where simply by clicking open the property page of the data sink “panel” placed on the desktop by the user[], the data sink presents to the user a detailed listing of available data sources; for any said data source selected by the user, said property page then displays a tree view of only those data channels);

receiving user input to the graphical user interface to select a first parameter value from the plurality of valid parameter values (Molinari, paragraph [0089] where [w]hen queried by the user (simply by clicking open the property page of the data sink “panel” placed on the desktop by the user), the data sink presents to the user a detailed listing of available data sources); and

automatically including the first parameter value in the source code of the software program in response to the user input selecting the first parameter value (Molinari, paragraph [0037] where [a]s the user places selected virtual instrument “panels” on the desktop and configures their properties . . . , an ALL file containing a description of the selected, created and defined aspects is simultaneously created, including, for each aspect, a description of its properties and connections [i.e., source code]; and Molinari, paragraph [0099] where [t]he actions of the user in selecting instrument component panels, and configuring their properties, serve to define the content and properties of the user’s intended application program. These actions by the user also operate to create a textual file, called in this description an Aspect Interaction

Language (AIL) file, that contains a description of the selected, created and defined software “aspects”, As the user adds more panels, selects more properties, and effects connections between panels, the AIL file expands into a complete textual description of the user’s program). However, Molinari is silent with respect to wherein the graphical user interface is displayed while a user is editing source code of a software program, wherein the source code is written in a text-based programming language that can be compiled into executable code; and aiding the user in editing the source code. On the other hand, Bowman discloses **wherein the graphical user interface is displayed while a user is editing source code of a software program, wherein the source code is written in a text-based programming language that can be compiled into executable code** (Bowman, Col. 7, lines 17-28; and Bowman, Fig. 4A); and **that aids the user in editing the source code** (Bowman, Col. 7, lines 17-28). See claim 1 above for the motivation to combine.

Response to Arguments

7. Applicant's arguments with respect to claims 1-15 and 20-27 have been considered but are moot in view of the new ground(s) of rejection, necessitated by applicant's amendment filed on 07/30/2007.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hubert Cheung whose telephone number is 571-270-

1396. The examiner can normally be reached on M-R 7:30A - 5:00P EST; alt. F 7:30A - 4:00P EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tim Vo can be reached on 571-272-3642. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Examiner: Hubert Cheung HC 9/10/07
Date: September 6, 2007



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